

**IN THE CLAIMS**

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- 1 (Previously Presented). A method comprising:  
attaching ligands along a polymer bristle to form a semiconductor wafer cleaning brush.
- 2 (Original). The method of claim 1 including attaching ligands using a hydrolysis reaction.
- 3 (Previously Presented). The method of claim 1 including attaching ligands along a polyvinyl alcohol polymer.
- 4 (Previously Presented). The method of claim 1 including using a coupling agent to attach ligands along a polymer chain.
- 5 (Original). The method of claim 1 including attaching ligands to provide a hydrophilic property.
- 6 (Original). The method of claim 1 including attaching ligands to provide hydrophobic property.
- 7 (Original). The method of claim 1 including attaching ligands to provide a reducing agent property.
- 8 (Original). The method of claim 1 including attaching ligands to provide an oxidizing property.
- 9 (Original). The method of claim 1 including attaching ligands to provide an attraction to a specific material.

10 (Previously Presented). The method of claim 1 including attaching ligands to change a zeta potential.

11 (Original). The method of claim 1 including attaching a ligand having a subchain to the polymer.

12 (Original). The method of claim 11 including attaching a moiety to said subchain to provide a desired property to said ligand.

13 (Previously Presented). A method comprising:  
cleaning a semiconductor wafer using a polymer brush having ligands attached along a polymer.

14 (Original). The method of claim 13 including using a brush having ligands attached to polyvinyl alcohol polymer bristles.

15 (Original). The method of claim 13 including using a brush having ligands that to provide a hydrophilic property.

16 (Original). The method of claim 13 including using a brush having ligands that provide a hydrophobic property.

17 (Original). The method of claim 13 including using a brush having ligands that provide a reducing agent property.

18 (Original). The method of claim 13 including using a brush having ligands that provide an oxidizing property.

19 (Original). The method of claim 13 including using a brush having ligands that are attracted to a specific material.

20 (Previously Presented). The method of claim 13 including using a brush having ligands to establish a positive zeta potential in a media.

21 (Previously Presented). The method of claim 13 including using a brush having ligands to establish a negative zeta potential in a media.

22 (Original). The method of claim 13 including using a brush having a ligand having a subchain of at least two carbon atoms.

23 (Previously Presented). The method of claim 22 including using a brush having a moiety on said subchain to provide a property to said ligand.

Claims 24-34 (Canceled).